

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): A solution casting method for producing a polymer film from a dope solution containing a polymer and a solvent, comprising steps of:

casting said dope solution from a casting die on a substrate to form a gel-like film;

drawing said gel-like film in a tangential direction of said substrate to peel said gel-like film from said substrate at a peeling speed of at least 10 m/min;

regulating to less than 20 mm a movement range in which a peeling position of said gel-like film moves on said substrate; and

drying said peeled gel-like film so as to obtain said polymer film;

wherein a peeling roller is used for peeling said gel-like film;

wherein when a peeling force for peeling said gel-like film is at the maximum, a weight percentage of a remaining solvent in said gel-like film to a weight of said polymer film is determined as a criterion, and while said gel-like film is peeled, said weight percentage of said remaining solvent is in the range of:

5 wt.% to (said criterion measure – 5 wt.%), or

(said criterion measure + 5 wt.%) to 50 wt.%;

and wherein the criterion measure is in the range of 15 wt.% to 35 wt.%.

2. (original): A solution casting method as claimed in claim 1, wherein the moving direction of said peeling position changes at least four times in one second along a transporting direction of said substrate.

3. (canceled).

4. (previously presented): A solution casting method as claimed in claim 1, wherein a length of an internal common tangent of said peeling roller and said substrate is in the range of 0.1 mm to 100 mm.

5. (previously presented): A solution casting method as claimed in claim 1, wherein a temperature of said substrate is adjusted in the range of 10 °C to 40 °C .

6. (original): A solution casting method as claimed in claim 5, wherein said peeling speed is at most 150 m/min.

7. (original): A solution casting method as claimed in claim 6, wherein a transporting time for transporting said gel-like film on said substrate is in the range of 0.5 min to 10 min.

8. (original): A solution casting method as claimed in claim 7, wherein a temperature of said gel-like film at peeling is in the range of 10 °C to 50 °C .

9. (canceled).

10. (previously presented): A solution casting method as claimed in claim 1, wherein when a thickness of said polymer film is at most 60 μm, a weight percentage of said remaining solvent at peeling said gel-like film is in the range of 5 wt.% to (criterion - 5 wt.%).

11. (previously presented): A solution casting method as claimed in claim 1, wherein when a thickness of said polymer film is more than 60 μm , a weight percentage of said remaining solvent at peeling said gel-like film is in the range of (said criterion measure + 5 wt.%) to 50 wt.%.

12. (original): A solution casting method as claimed in claim 11, wherein when a thickness of said polymer film is more than 60 μm , said criterion is 30 wt.%, and a weight percentage of said remaining solvent at peeling said gel-like film is in the range of 35 wt.% to 45 wt.%.

13. (previously presented): A solution casting method as claimed in claim 1, wherein a peeling roller used for peeling said gel-like film is disposed downstream from said substrate, and a distance from said peeling position and said peeling roller is in the range of 0.1 mm to 100 mm.

14. (previously presented): A solution casting method as claimed in claim 1, wherein a release agent is added to said dope solution.

15. (previously presented): A solution casting method as claimed in claim 1, wherein said solvent is a mixture solvent containing dichloromethane and alcohol, and a weight ratio of said alcohol is more than 8 wt.%.

16. (previously presented): A solution casting method as claimed in claim 15, wherein at least one of methanol, ethanol, and n-butanol is used as said alcohol.

17. (previously presented): A solution casting method as claimed in claim 15, wherein materials which are acids or materials showing characters or properties of acid are in said dope solution.

18. (previously presented): A solution casting method as claimed in claim 1, wherein cellulose acylate is used as said polymer.

19. (canceled).

20. (canceled).

21. (canceled).